

Metadata for Jewel Cave National Monument, Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System

Identification_Information:

Citation:

Citation_Information:

Originator:

U.S. Bureau of Reclamation, Remote Sensing and GIS Group, and The Nature Conservancy

Publication_Date: 19980309

Title:

Jewel Cave National Monument Spatial Vegetation Data; Cover Type /
Association level of the National Vegetation Classification System

Geospatial_Data_Presentation_Form: Map

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Jewel Cave National Monument

Publication_Information:

Publication_Place: Denver CO

Publisher: USGS, Biological Resources Division, Center for Biological Informatics

Other_Citation_Details: Created under contract to the USGS-BRD-CBI.

Online_Linkage: http://biology.usgs.gov/npsveg/jeca/index.html#geospatial_veg_info

Description:

Abstract:

The National Park Service (NPS), in conjunction with the Biological Resources Division (BRD) of the U.S. Geological Survey (USGS), has implemented a program to "develop a uniform hierarchical vegetation methodology" at a national level. The program will also create a geographic information system (GIS) database for the parks under its management. The purpose of the data is to document the state of vegetation within the NPS service area during the 1990's, thereby providing a baseline study for further analysis at the Regional or Service-wide level. The vegetation at Jewel Cave National Monument was mapped using 1:16,000 scale U.S. Forest Service Color Aerial Photography acquired August 22, 1993. The mapping classification used two separate classification systems. All natural vegetation used the National Vegetation Classification System (NVCS) as a base. The vegetation classification was created after extensive on site sampling and numerical analysis. The vegetation map units were derived from the vegetation classification. Other non-natural or cultural mapping units used the Anderson Level II classification system. The mapped area includes a buffer around the Monument boundary.

Purpose:

This mapping effort originates from a long-term vegetation monitoring program that is part of a larger Inventory and Monitoring (I&M) program started by the National Park Service (NPS). I&M goals are, among others, to map the vegetation of all national parks and monuments and provide a baseline inventory of vegetation. The I&M program currently works in close cooperation with the Biological Resources Division (BRD) of the United States Geological Survey (USGS). The USGS/BRD continues overall management and oversight of all ongoing mapping efforts in close cooperation with the

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NPS.

Supplemental_Information:

The purposes of the mapping effort are varied and include the following:

Provides support for NPS Resources Management. Promotes vegetation-related research for both NPS and USGS/BRD. Provides support for NPS Planning and Compliance. Adds to the information base for NPS Interpretation. Assists in NPS Operations.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19950912

Currentness_Reference: Source photography date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -103.87

East_Bounding_Coordinate: -103.75

North_Bounding_Coordinate: 43.77

South_Bounding_Coordinate: 43.62

Description_of_Geographic_Extent: Jewel Cave National Monument and about a 2 mile environs around Monument

Boundaries - Black Hills, South Dakota,USA

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: National Park Service

Theme_Keyword: U.S. Geological Service

Theme_Keyword: The Nature Conservancy

Theme_Keyword: Aerial Information Systems

Theme_Keyword: Center for Biological Informatics

Theme_Keyword: land cover

Theme_Keyword: vegetation

Theme_Keyword: alliance

Theme_Keyword: association

Theme_Keyword: land use

Theme_Keyword: Environmental System Research Institute

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Jewel Cave National Monument

Place_Keyword: Black Hills

Place_Keyword: South Dakota

Place_Keyword: USA

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: None

Taxonomic_Keywords: Plant Communities

Taxonomic_Classification:

Taxon_Rank_Name: Kingdom

Taxon_Rank_Value: Plantae

Access_Constraints: None

Use_Constraints:

No warranty, expressed or implied, is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes.

Any person using the information presented here should fully understand the data collection and compilation procedures, as described

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in the metadata, before beginning analysis. The burden for determining fitness for use lies entirely with the user.

Point_of_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS Biological Resources Division, Center for Biological Informatics

Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: Physical Address

Address: USGS

Address: Biological Resources Division, CBI

Address: Building 810, Room 8000

City: Denver

State_or_Province: Colorado

Postal_Code: 80225-0046

Country: USA

Contact_Address:

Address_Type: Mailing Address

Address: USGS

Address: Biological Resources Division, CBI

Address: PO BOX 25046, DFC, MS302

City: Denver

State_or_Province: Colorado

Postal_Code: 80225-0046

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: 303-202-4229

Contact_Facsimile_Telephone: 303-202-4219 (org)

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Browse_Graphic:

Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/jeca/images/jecaveg.gif>

Browse_Graphic_File_Description: 170 Kbyte graphic in map composition layout

Browse_Graphic_File_Type: GIF

Data_Set_Credit: USGS, NPS, U.S. BOR, TNC

Native_Data_Set_Environment: UNIX-ARC/INFO

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

These data have a combined total accuracy of 80.0% (confidence interval 75.7% - 84.8%). Individual class accuracies range from 74% to 100% in both errors of commission and omission.

Logical_Consistency_Report:

All polygon features are checked for topology using the ARC/INFO software.

Each polygon begins and ends at the same point with the node feature. All

nodes are checked for error so that there are no dangling features. There

are no duplicate lines or polygons. All nodes will snap together and close

polygons based on a specified tolerance. If the node is not with the

tolerance it is adjusted manually. The tests for logical consistency are

performed in ARC/INFO using certain commands.

Completeness_Report:

All data that can be photo-interpreted is also digitized. This includes

features that fall into the NVCS vegetation classification and the Anderson

Level II classification. Minimum mapping unit is ostensibly .5 hectares but

some low frequency classes below the MMU are included.

Positional_Accuracy:

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Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The horizontal positional accuracy is tested by visual comparison of digital data to the source materials and verifying the location of the data on-screen relative to other data layers in the same geographic area. The base used for this mapping effort is a scanned and registered paper orthophotograph. Visual examination of these data shows them to comply (usually exceed) with national map accuracy standards for 1:24,000 scale products. See Analysis of Accuracy Assessment Procedures.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: There is no accuracy assessment for vertical position.

Lineage:

Methodology:

Methodology_Type: Field

Methodology_Identifier:

Methodology_Keyword_Thesaurus: Ground truthing

Methodology_Keyword: GPS

Methodology_Keyword: field plots

Methodology_Description:

Developmental of Programmatic and Technical Team:

This project required the combined expertise and oversight of several organizations. Oversight and programmatic considerations are managed by the Center for Biological Informatics of the Biological Resources Division of the U.S. Geological Survey. The National Park Service provided additional guidance. The technical responsibilities for the mapping effort were divided between TNC and BOR. TNC responsibilities and deliverables included the following: Create a vegetation classification system based upon field species level data and consistent with the Standard National Classification System at the Alliance or Community Element level Provide documentation that describes the national classes at the local and global levels, with field keys, and field data in a *.dbf format. Provide technical opinion to BOR as the mapping portion of the project proceeds. Provide field notes and site descriptions BOR responsibilities and deliverables included the following: Digital files of vegetation on Compact (CD); including topology and labeling for height, density, and pattern subclasses; location of field sample sites; and locations of sites used for accuracy assessment in Arc/Info format Any ancillary digital files developed during the mapping process Digital FGDC compliant metadata file for each digital file delivered Annotated field site photographs Original mylar overlays of interpreted photographs Hard copy vegetation map Accuracy assessment Final report describing all procedures used in developing the final map and accuracy assessment Planning and Review Meeting An initial meeting was held with all interested parties to discuss several aspects of the mapping effort. Foremost among these was the mapping extent. Vegetation issues particular to the park were addressed. Jewel Cave National Monument was responsible for obtaining permission from adjacent land owners for property access for sampling purposes. Most of the private lands were under some form of grazing or farming. Consequently, sampling on these lands was not necessary. The remainder of the lands within the mapping area are U.S. Forest Service Lands so permission was not necessary. Preliminary Data Collection and Review of Existing Information To reduce duplicating previous work and to help in our effort we collected existing vegetation reports and maps from the staff at Jewel Cave National Monument. These materials were

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referenced during the mapping process and the information contained in them was incorporated where it was deemed useful. Because soils also affect the distribution of vegetation, soil maps and soil descriptions were also obtained as reference. These were not converted to a digital file. Digital elevation models (DEM) were obtained to create slope and aspect maps that helped in determining vegetation community distribution. Vegetation Sampling The sampling approach used in this mapping effort was typical of small park sampling, where all polygons within the park boundary are sampled. Two levels of field data gathering were conducted in this park; plots and observations. Plots represented the most intensive sampling of the landscape and used TNC's 'Plot Form'. Observations consisted of brief descriptions and were designed to obtain a quick overview of the landscape without spending a large amount of time at each sample site. Observation points used the 'Observation Form' data sheet. Examples of both 'Plot' and 'Observation' forms are included in the companion report by TNC. Initially, plots were used to describe the vegetation of the park. A total of 28 plots were obtained from July 29 through August 1, 1996. These plots were used by TNC to describe the vegetation associations found within the park. These descriptions are in the companion report by TNC. Map Validation A field trip was conducted in May of 1997 to assess the initial mapping effort and to refine map classes.

Source_Information:

Source_Citation:

Citation_Information:

Originator: Kenny Aerial Mapping Company, Phoenix, AZ

Publication_Date: 19930817

Title:

Aerial photography (CIR and true color) of Jewel Cave National Monument

Geospatial_Data_Presentation_Form: image

Publication_Information:

Publication_Place: Denver, CO

Publisher: USGS Center for Biological Informatics

Other_Citation_Details:

Aerial photography was taken at a scale of 1:16,000. Original media are in the form of positive transparencies. Photointerpretation was done on contact prints of the true color photos.

Online_Linkage: <http://biology.usgs.gov/npsveg/jeca/photos.html>

Source_Scale_Denominator: 12000

Type_of_Source_Media: Contact paper prints of film transparencies

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19930817

Source_Currentness_Reference: Imagery date

Source_Citation_Abbreviation: jeca Aerial Photos

Source_Contribution:

These aerial photographs were the basis for the photointerpretation process

Source_Information:

Source_Citation:

Citation_Information:

Originator: Unknown

Publication_Date: Unknown

Title: Digital Orthophotograph of Jewel Cave National Monument

Geospatial_Data_Presentation_Form: Remote-Sensing Image

Publication_Information:

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Publication_Place: Unknown

Publisher: Unknown

Other_Citation_Details: The digital orthophotograph is a 1:2400 scale image.

Type_of_Source_Media: Cartridge Tape

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: Unknown

Source_Currentness_Reference: Imagery date

Source_Citation_Abbreviation: jeca orthophoto

Source_Contribution: This digital orthophoto provided the project basemap

Source_Information:

Source_Citation:

Citation_Information:

Originator: USGS,BRD,Center for Biological Informatics

Publication_Date: 19960405

Title: Jewel Cave National Monument Sampling and Classification

Geospatial_Data_Presentation_Form: report

Publication_Information:

Publication_Place: Denver, CO

Publisher: USGS, BRD, Center for Biological Informatics

Other_Citation_Details:

This report was generated by the Nature Conservancy under contract to the USGS, BRD, CBI.

Online_Linkage: <http://biology.usgs.gov/npsveg/jeca/methods.pdf>

Type_of_Source_Media: Online

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 199510

Source_Currentness_Reference: Ground Condition

Source_Citation_Abbreviation: jeca sample and classification

Source_Contribution: Report summarizing plot data collection effort

Source_Information:

Source_Citation:

Citation_Information:

Originator: USGS/BRD, Center for Biological Informatics

Publication_Date: 199411

Title: Accuracy Assessment Procedures, NBS/NPS Vegetation Mapping Program

Geospatial_Data_Presentation_Form: document

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Jewel Cave National Monument

Publication_Information:

Publication_Place: Denver, CO

Publisher: USGS/BRD, Center for Biological Informatics

Other_Citation_Details:

This report was prepared by Environmental Systems Research Institute; Redlands, CA, National Center for Geographic Information and Analysis, University of California, Santa Barbara, CA and The Nature Conservancy, Arlington, VA under contract from the U.S. Department of Interior National Biological Survey and National Park Service.

Online_Linkage: <http://biology.usgs.gov/npsveg/aa/aa.html>

Type_of_Source_Media: electronic document

Source_Time_Period_of_Content:

Time_Period_Information:

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Single_Date/Time:

Calendar_Date: 199411

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: Accuracy Assessment Procedures Documents

Source_Contribution: This document established the procedures and protocols for the accuracy assessment at Jewel Cave National Monument.

Source_Information:

Source_Citation:

Citation_Information:

Originator: U.S. Geological Survey

Originator: Department of the Interior

Publication_Date: 19980510

Title:

Jewel Cave National Monument Photo Interpretation and Map Generation Procedures

Geospatial_Data_Presentation_Form: report

Series_Information:

Series_Name: USGS-NPS Vegetation Mapping Program

Issue_Identification: Jewel Cave National Monument

Publication_Information:

Publication_Place: Denver, CO

Publisher: USGS, Biological Resources Division, Center for Biological Informatics

Other_Citation_Details:

Created in large part by Aerial Information Systems, Inc. under contract from USGS/BRD/CBI.

Online_Linkage: http://biology.usgs.gov/npsveg/jeca/pi_rpt.pdf

Type_of_Source_Media: digital

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 19980510

Source_Currentness_Reference: Report date

Source_Citation_Abbreviation: jeca mapping report

Source_Contribution:

Photo interpretation was done by trained interpreters familiar with the vegetation communities of the Monument on overlays registered to the aerial photographs under a stereoscope. Vegetation communities were identified on the basis of their color, pattern, texture, and location on the landscape and lines were drawn around the communities. The photo interpreters had visited the monument and conferred with the ecologists who performed the vegetation classification and were familiar with the vegetation communities. Not all vegetation associations could be identified on the photography due to size constraints and complexity of the vegetation. Map classes were assigned in these cases and a cross-walk was made to the vegetation classification.

Process_Step:

Process_Description:

Air Photo Interpretation All map classes were interpreted from existing 1:16,000 scale, color photography flown on August 17, 1993. The photographs were acquired from the U.S. Forest Service (USFS). Photointerpretation used the standard identification features such as tone, texture, color, pattern, topographic position, and shadow. In addition, field sample locations and their vegetation descriptions aided in assigning map class to each polygon. All photographs were examined using a stereoscope. Digital elevation models (DEM's) were processed and converted to slope and aspect coverages. These helped to provide additional perspectives of the landscape. Six photographs were interpreted for the entire mapping area. Digital scans of these

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photographs are included as .tif files on the CD included with this report.

Process_Date: 199510

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Bureau of Reclamations

Contact_Address:

Address_Type: Physical Address

City: Redlands

State_or_Province: CA

Postal_Code: Unknown

Country: USA

Contact_Voice_Telephone: Unknown

Process_Step:

Process_Description:

In conjunction with the photoverification and field sampling effort, NBS (now USGS, BRD, CBI) personnel performed a locational accuracy test comparing the accuracy of a global positioning system (GPS) versus manual location techniques. The TNC biologist "pin-pricked" all of the sample site locations onto the aerial photos while the NBS staff captured the location using GPS. The "pin-pricked" locations were subsequently input into the GIS database for comparison against the GPS locations for the same site.

Process_Date: 199510

Source_Used_Citation_Abbreviation: JECA CIR Aerial Photography

Source_Used_Citation_Abbreviation: Analysis of Accuracy Assessment Procedures at Jewel Cave National Monument

Spatial_Data_Organization_Information:

Indirect_Spatial_Reference:

Jewel Cave National Monument is in Custer County and is part of the south western Black Hills. The Monument lies 11 miles west of the town of Custer, South Dakota.

Direct_Spatial_Reference_Method: Vector

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 13

Transverse_Mercator:

Longitude_of_Central_Meridian: -105

Latitude_of_Projection_Origin: 0

False_Easting: 500000

False_Northing: 0

Scale_Factor_at_Central_Meridian: .9996

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 1

Ordinate_Resolution: 1

Planar_Distance_Units: Meters

Geodetic_Model:

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137

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Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:

Overview_Description:

Entity_and_Attribute_Overview:

The database contains two separate classification systems. The two systems represent vegetation map units and land cover map units. The vegetation map units are usually combinations of vegetation associations described in the TNC companion report. The vegetation map units have also been categorized into 5 general vegetation classes. The land use map units use the Anderson Level II classification system. The vegetation attributes contain character codes and descriptors. The land use contain numeric codes. The descriptors are available in two look-up tables provided with this data set. These are map.lut and anderson.lut. Modifiers also exist representing percent of vegetation cover and tree height. These modifiers are available in the look-up table structure.lut. Contact David Salas at the Bureau of Reclamation Remote Sensing and Geographic Information Group D-8260 for more information about the classification system.

National Park Service/Biological Resources Division Vegetation Inventory and Mapping Program for Jewel Cave National Monument, South Dakota, Final Community Association Classification, May 1, 1998. Alliance/Community BW=Ash Leaf Maple / Choke Cherry Forest GS=Grass / Shrub Complex P1=Ponderosa Pine Complex 1 P2=Ponderosa Pine Complex II PT=Quaking Aspen / Choke Cherry Forest.

HEIGHT

2 = 0.5 - 1 meters
3 = 1 - 5 meters
4 = 5 - 15 meters
5 = 15 - 30 meters
6 = > 30 meters

DENSITY

1 = Closed/Continuous < 60%
2 = Discontinuous 40% - 60%
3 = Dispersed 25% - 40%
4 = Sparse 10% - 25%

PATTERN

1,'Evenly Dispersed'
2,'Clumped/Bunched'
3,'Gradational/Transitional'
4,'Alternating'

ANDERSON CODE

11 = Residential
12 = Commercial and Services
14 = Transportation, Communications and Utilities
21 = Cropland and Pasture
53 = Reservoirs
62 = Nonforested Wetland
75 = Strip Mines, Quarries, and Gravel Pits

VEGETATION CODE

gplb = Little Bluestem - Grama (Side-Oats, Blue) - Threadleaf Sedge Herbaceous Vegetation
wwbg = Western-Wheatgrass - Blue Grama - Threadleaf Herbaceous Vegetation

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kgb-ws = Kentucky Bluegrass / Western Snowberry Shrubland Mosaic

kgb = Kentucky Bluegrass Disturbed Community

ppbw = Ponderosa Pine / Bearberry Woodland

ppcj = Ponderosa Pine / Common Juniper Woodland

pplb = Ponderosa Pine / Little Bluestem Woodland

ppsf = Ponderosa Pine / Snowberry Forest

ppss = Ponderosa Pine / Sun Sedge Woodland

bw = Ash Leaf Maple / Choke Cherry Forest

pt = Quaking Aspen / Choke Cherry Forest

Entity_and_Attribute_Detail_Citation:

Grossman, D. Et al. 1994. National Park Service/ National Biological Service Vegetation Mapping Project, Standardized National Vegetation Classification System 209 pp.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Organization: USGS/BRD, Center for Biological Informatics

Contact_Position: Geospatial Technology Specialist

Contact_Address:

Address_Type: Physical Address

Address: USGS Biological Resources

Address: Center for Biological Informatics

Address: Denver Federal Center, Building 810

Address: Room 8000, MS302

City: Denver

State_or_Province: CO

Postal_Code: 80225-0046

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: 303-202-4229

Contact_Facsimile_Telephone: 303-202-4219 (org)

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Resource_Description: JECA Veg map

Distribution_Liability:

Although these data have been processed successfully on a computer system at the Biological Resources Division, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that these data are directly acquired from a Biological Resources Division server, and not indirectly through other sources which may have changed the data in some way. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data. The Biological Resources Division shall not be held liable for improper or incorrect use of the data described and/or contained herein.

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: HTML

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

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Network_Address:

Network_Resource_Name: http://biology.usgs.gov/npsveg/jeca/index.html#geospatial_veg_info

Fees: none

Metadata_Reference_Information:

Metadata_Date: 20011022

Metadata_Review_Date: 20060901

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological Informatics, MS 302,
Room 8000, Building 810, Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:
Biological Data Profile, 1999

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage: <http://biology.usgs.gov/fgdc.bio/bionwext.txt>

Profile_Name: Biological Data Profile FGDC-STD-001.1-1999